OPERATING INSTRUCTIONS

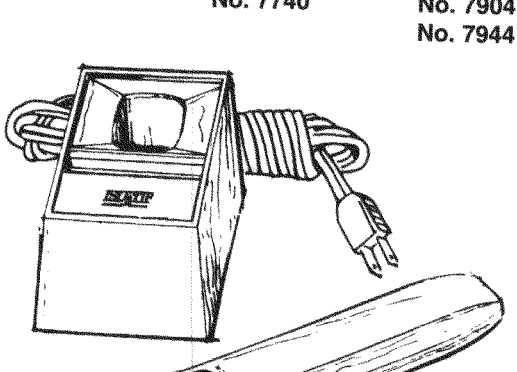
ISO-TIP

CORDLESS SOLDERING IRON

WAHL® CLIPPER CORPORATION, Sterling, Illinois

"Still the greatest advance in soldering since electricity!"

Catalog **No. 7700** **No. 7740** **No. 7775** **No. 7904** **No. 7944**



CAUTION

When the "ISO-TIP" operating button is pressed, the tip heats to over 700° F, almost immediately.

1. DO NOT HOLD THE TIP when pushing the button.
2. Whenever you are finished soldering, make sure to rotate button back to lock position.
3. Do not allow metal objects to or "short" across the recessed charging contact points. The metal could get very hot.
4. Do not lay against any surface after using until the TIP HAS COOLED.

Patented — See Notice Inside Housing Lid

Please read these IMPORTANT INSTRUCTIONS ...

Congratulations on your purchase of a Wahl "Iso-Tip" Cordless Soldering Iron. Proper care will give you years of service from this fine tool. THE IRON IS SHIPPED WITH THE BATTERIES UNCHARGED.

INSTALLING TIP:

Align tip leads over the terminal holes. Push inward and upward until tip is fully seated. To remove — pull straight out. If it is desired to attach the tip permanently to the terminals, remove the two terminal screws and take off the two springs. Then insert the tip into the tip holders, replace the screws and tighten.

RECHARGING

The recharging stand is designed to be operated on 100 to 120 Volts, 50-60 Cycle. To recharge, place the "Iso-Tip" in the recharging stand with the pushbutton toward the front. To recharge using the wall plug transformer, plug charger cord into bottom of iron and plug charger only into a 120 Volt AC, 50/60 Cycle receptacle. Recharge from **"DEAD"** to **"FULL CHARGE"** (recharging stand) #7700, #7740, #7904, #7944, Quick Charge and Power Pro units in 3-4½ hours. Using the wall plug transformer charging time is 12-16 hours and can be used with all models except for #7800, #7840. It is suggested to charge iron when received and to leave in recharging stand or plugged into wall plug transformer when not in use. Soldering iron will not overcharge.

The recharging stand for the 7944 and 7904 has an LED to indicate charging status. "RED" indicates that the iron is not charging; "YELLOW/GREEN" indicates that the iron is charging. If the "RED" light appears when you place the iron in the stand, always check to see that the stand is connected to a power source.

REPLACING THE BATTERIES

In the unlikely event that you have to replace the soldering iron's Ni-Cad batteries:

1) Remove three screws from case. Remove cover carefully.
2) Remove switch contact screw. Lift switch spring and tip holder assembly up and remove from unit.
3) Remove 2 screws located on ends of battery pack.

3a) Remove battery pack.

4) Install new battery pack with 2 screws.
5) Replace switch spring and tip assembly in case. Use caution! Do not touch the other tip assembly.
6) Replace switch contact screw.
7) Replace cover and 3 screws.

This product uses a nickel-cadmium (Ni-Cad) battery, which must be disposed of properly. In some states it is illegal to dispose of this battery in the trash. Call 1 (800) BATTERY [1 (800) 822-8837] for your nearest Ni-Cad recycling site.

GENERAL SOLDERING INFORMATION:

For fast and accurate soldering, a clean and well-tinned tip is required. Heat and gently wipe with a rag or an emery cloth to clean tip. Re-tin to minimize oxidation. Use good quality solder; use resin coated or solid with the proper flux for electronics work. Apply solder ONLY at the point of the tip.

TO OPERATE:

Turn button to "use" position. Depress button to operate. When not in use turn button to lock position.

SOLDERING ON PRINTED CIRCUIT BOARDS, WIRING AND GENERAL WORK:

1. Make sure work is clean and make a good mechanical connection where possible. Flux the joint, if necessary.

2. Remove "ISO-TIP" from its recharging stand, depress pushbutton, wait 3-5 seconds and apply tip to joint that is to be soldered.

3. Now immediately apply solder at the point of the tip and the joint so that melted solder will help in heat transfer.

4. When solder flows and has wetted connection, remove solder and soldering iron and release pushbutton.

5. Soldering cycle should be completed within 15 seconds.

6. Unnecessary usage will reduce joint capacity as will too large work.

7. Check your work; a good solder joint should look smooth and bright.

8. After connection has cooled, trim off excess wire.

RECOMMENDED PRACTICES AND ANSWERSTO FREQUENTLY ASKED QUESTIONS:

(1) You **CAN** leave your Wahl "ISO-TIP" in its charging stand all of the time when not in use — it will **NEVER** overcharge. To save electricity, the charger can be unplugged if long periods of non-use are expected. If the soldering iron is left in the stand and the recharging stand is disconnected or turned off the iron will discharge.

(2) The iron should be used frequently to insure a longer life of its batteries. Even when you don't solder, it is a good practice to completely discharge the batteries by normal use at least once a month. If this is not done, the batteries will gradually lose their maximum capacity.

However, when discharging, **DO NOT** hold the iron continuously in the **ON** position whithout a **HEAT SINK** to prevent abnormally high tip temperature.

(3) **Never** charge your "Iso-Tip" soldering iron in a RE-CHARGER stand that is a different color than the iron. The higher charge rate of different colored stands may cause overcharging and overheating of the iron's rechargeable cells, and this will shorten battery life.

(4) When soldering, touch only the nose of the tip to the area you are soldering and not the thin sidewalls. Do not feed the solder onto the side of the tip. This practice will rapidly eat a hole through the side of the copper tip. Feed the solder onto the very end of the tip at the junction with the work.

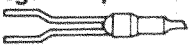
(5) All tips should be kept tinned for fast heat transfer to the work and longest tip life. (See directions under General Soldering Information).

(6) Tip temperature can be controlled by pressing the button momentarily off and on in use. This may be necessary when working with micro printed circuits.

REPLACEMENT TIPS:

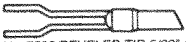
If not available from your dealer, order direct from factory.

Regular Tips

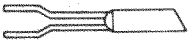


No. 7571 BEVELED TIP 1/16" (1.6mm)

No. 7579 BEVELED TIP 3/32" (2.4 mm)



No. 7592 BEVELED TIP 5/32" (4 mm)



No. 7593 BEVELED TIP
high wattage 3/16" (4.8 mm)

No. 7566 MICRO SOLDERING TIP
1/64" (.4 mm)

No. 7535 REGULAR TIP 5/32" (4 mm)

No. 7546 HEAVY DUTY TIP
high wattage 3/16" (4.8 mm)

No. 7541 CIRCUIT BREAKER TIP

No. 7574 CONCAVE CENTERING TIP
5/32" (4 mm)

No. 7573 TINNING TIP 5/32" (4 mm)

No. 7569 "V" TIP 5/32" (4 mm)

No. 7572 BLUNT TIP 5/32" (4 mm)

No. 7577 CHISEL TIP 5/32" (4 mm)

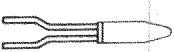
No. 7545 FINE TIP 1/16" (1.6 mm)

No. 7596 KNIFE TIP 1/32" (.8 mm)

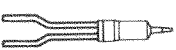
High Efficiency Tips

No. 7535-100 HI-E REGULAR TIP
5/32" (4 MM)

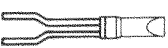
No. 7545-100 HI-E FINE TIP
1/16" (1.6 mm)



No. 7546-100 HI-E HEAVY DUTY TIP
high wattage 3/16" (4.8 mm)



No. 7566-100 HI-E MICRO SOLDERING TIP
1/64" (.4 MM)



No. 7577-100 HI-E CHISEL TIP
5/32" (4 mm)

No. 7579-100 HI-E BEVELED TIP
3/32 (2.4 mm)